

PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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of

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| Application Number     | 10/671,884         |
| Filing Date            | September 29, 2003 |
| First Named Inventor   | Kelly SHOEMAKE     |
| Art Unit               | 1771               |
| Examiner Name          | TBA                |
| Attorney Docket Number | 005242.00133       |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| MM                     |                          | US-  |                                |  |   |
|                        |                          | US- 2,908,660                              | 09-29-1959                     | Hungerford et al.                                  |   |
|                        |                          | US- 3,012,929                              | 12-12-1961                     | Jackson et al.                                     |   |
|                        |                          | US- 3,050,427                              | 08-21-1962                     | Slayter et al.                                     |   |
|                        |                          | US- 3,103,461                              | 09-10-1966                     | Smith et al.                                       |   |
|                        |                          | US- 3,228,825                              | 01-11-1966                     | Waggoner   |   |
|                        |                          | US- 3,760,458                              | 09-25-1973                     | Pitt   |   |
|                        |                          | US- 3,766,003                              | 10-16-1973                     | Schuller et al.                                    |   |
|                        |                          | US- 3,838,995                              | 10-01-1974                     | Smith  |   |
|                        |                          | US- 3,905,067                              | 09-16-1975                     | Keib et al.  |   |
|                        |                          | US- 4,112,174                              | 09-05-1978                     | Hannes et al.                                      |   |
|                        |                          | US- 4,258,098                              | 03-24-1981                     | Bondoc et al.                                      |   |
|                        |                          | US- 4,282,119                              | 08-04-1981                     | Tinkelenberg et al.                                |   |
|                        |                          | US- 4,474,694                              | 10-02-1984                     | Coco et al.  |   |
|                        |                          | US- 4,554,337                              | 11-19-1985                     | Krinski et al.                                     |   |
|                        |                          | US- 4,560,612                              | 12-24-1985                     | Yau  |   |
|                        |                          | US- 4,681,802                              | 07-21-1987                     | Gaa et al.   |   |
|                        |                          | US- 4,687,826                              | 08-18-1987                     | Steinmetz et al.                                   |   |
|                        |                          | US- 4,810,576                              | 03-07-1989                     | Gaa et al.   |   |
|                        |                          | US- 4,917,764                              | 04-17-1990                     | Lahwani et al.                                     |   |
|                        |                          | US- 5,153,242                              | 10-06-1992                     | Timm et al.  |   |
|                        |                          | US- 5,344,871                              | 09-06-1994                     | Timm et al.  |   |
|                        |                          | US- 5,362,842                              | 11-08-1994                     | Graves et al.                                      |   |
|                        |                          | US- 5,389,716                              | 02-14-1995                     | Graves   |   |
|                        |                          | US- 5,455,068                              | 10-03-1995                     | Broich et al.                                      |   |
|                        |                          | US- 5,518,588                              | 05-21-1998                     | Mirous   |   |
|                        |                          | US- 5,593,625                              | 01-14-1997                     | Reibel et al.                                      |   |
|                        |                          | US- 5,766,331                              | 06-16-1998                     | Krinski et al.                                     |   |
|                        |                          | US- 5,851,933                              | 12-22-1998                     | Swartz et al.                                      |   |
|                        |                          | US- 5,914,365                              | 06-22-1999                     | Chang et al.                                       |   |
|                        |                          | US- 6,084,021                              | 07-04-2000                     | Chang et al.                                       |   |
|                        |                          | US- 6,231,985                              | 05-15-2001                     | Chen et al.  |   |
|                        |                          | US- 6,308,997                              | 10-23-2001                     | Kuo et al.   |   |
|                        |                          | US- 6,365,650                              | 04-02-2002                     | Chen et al.  |   |
|                        |                          | US- 6,384,116                              | 05-07-2002                     | Chan et al.  |   |
|                        |                          | US- 6,497,760                              | 12-24-2002                     | Sun et al.   |   |
|                        |                          | US- 6,518,387                              | 02-11-2003                     | Kuo et al.   |   |
|                        |                          | US- 6,544,911                              | 04-08-2003                     | Peng et al.  |   |
|                        |                          | US- 6,719,882                              | 04-13-2004                     | Vijayendran et al.                                 |   |
|                        |                          | US- 2002/0005251 A1                        | 01-17-2002                     | Sun et al.   |   |
|                        |                          | US- 2003/0148084 A1                        | 08-07-2003                     | Trocino et al.                                     |   |
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Matthew Matak

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| Sheet | 2 |
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|-------------------------------|---------------------------|
| <b>Application Number</b>     | <b>10/671,884</b>         |
| <b>Filing Date</b>            | <b>September 29, 2003</b> |
| <b>First Named Inventor</b>   | <b>Kelly Shoemake</b>     |
| <b>Art Unit</b>               | <b>1771</b>               |
| <b>Examiner Name</b>          | <b>TBA</b>                |
| <b>Attorney Docket Number</b> | <b>005242.00133</b>       |

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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|                    |                       | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                |   |   |                |
| LM                 |                       | EP - 0 997 513  | 05-03-2000                     | Silvestre et al.                                |   | Abs            |
|                    |                       | WO - 01/59026   | 08-16-2001                     | Trocino   |   | "              |
|                    |                       | JP - 6200226  | 07-19-1994                     | Kounosuke                                       |   | Abs            |
|                    |                       | JP - 58034877   | 03-01-1983                     | Yamaguchi et al.                                |   | Abs            |
|                    |                       | JP - 81045957   | 10-29-1981                     |   |   | Abs            |
|                    |                       |   |                                |   |   |                |
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**Examiner  
Signature**

Matthieu Matsich

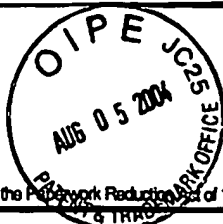
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Sheet

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|                        |                    |
|------------------------|--------------------|
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| Filing Date            | September 29, 2003 |
| First Named Inventor   | Kelly Shoemaker    |
| Art Unit               | 1771               |
| Examiner Name          | TBA                |
| Attorney Docket Number | 005242.00133       |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issu number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|------------------------|--------------------------|--|----------------|
| MM                     |                          | BIAN, et al., "Adhesive Performance of Modified Soy Protein Polymers" Polym. Prep., Am. Chem. Soc. Div., Polym. Chem., Vol. 39, pp. 72-73, 1998.   |                |
|                        |                          | KIRK-OTHEMER, "Soybeans and other Oilseeds" Encyclopedia of Chemical Technology, Vol. 21, 3 <sup>rd</sup> Ed., pp. 418-422, 1983.  |                |
|                        |                          | KIRK-OTHEMER, "Soybeans and Other Oilseeds" Encyclopedia of Chemical Technology, Vol. 22, 4 <sup>th</sup> Ed., pp. 591-619, 1997.  |                |
|                        |                          | MO et al., "Compression and Tensile Strength of Low-Density Straw-Protein Particleboard" Industrial Crops and Products, Vol. 14, pp. 1-9, 2001.  |                |
|                        |                          | HOJILLA-EVANGELISTA, et al., "Foaming Properties of Soybean Protein-Based Plywood Adhesives", JAOCS, Vol. 78, No. 6, pp. 567-572, 2001.  |                |
|                        |                          | KUO, et al., "Properties of Wood/Agricultural Fiberboard Bonded with Soybean-Based Adhesives" Forest Products Journal, Vol. 48, No. 2, pp. 71-75, February 1998.   |                |
|                        |                          | KRINSKI, et al., "Emerging Polymeric Materials Based on Soy Protein" American Chemical Society, pp. 299-312, 1992.   |                |
|                        |                          | HOJILLA-EVANGELISTA, et al., "Adhesive Qualities of Soybean Protein-Based Foamed Plywood Glues" JAOCS, Vol. 79, No. 11, pp. 1145-1148, 2002.   |                |
|                        |                          | SUN, et al., "Plastic Performance of Soybean Protein Components" JAOCS, Vol. 76, No. 1, pp. 117-123, 1999.   |                |
|                        |                          | CONNER, et al., "Soybean-Based Wood Adhesives" JAOCS, Vol. 66, No. 4, pp. 437, 1989.   |                |
| ✓                      |                          | YANG, et al., "Soybean-Based Wood Adhesives for Structural Panels" Citations from Dissertation Abstracts, Vol. 63-048, pp 1625, 2002.  |                |

Examiner  
SignatureDate  
Considered

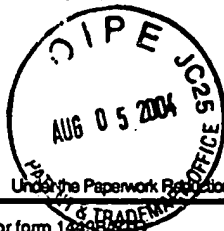
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE  
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Sheet 4

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**Complete If Known**

|                        |                    |
|------------------------|--------------------|
| Application Number     | 10/671,884         |
| Filing Date            | September 29, 2003 |
| First Named Inventor   | Kelly Shoemake     |
| Art Unit               | 1771               |
| Examiner Name          | TBA                |
| Attorney Docket Number | 005242.00133       |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|------------------------|--------------------------|---|----------------|
| MM                     |                          | COLEN, "A Study to Ascertain the Viability of Ultrasonic Nondestructive Testing to Determine the Mechanical Characteristics of Wood/Agricultural Hardboards with Soybean Based Adhesives" UMI Dissertation Services, 1998.                                      |                |
|                        |                          | KARCHER, "Incorporation of Corn- and Soybean-Based Materials into Plywood Adhesives" University of Illinois Thesis, pp. 115-216, 1997.  |                |
|                        |                          | SCHMITT, "Startup Firm Stuck on Soybeans" Chemical Week, pp. 9, March 13, 2002.   |                |
|                        |                          | PARTINGTON, "United Soybean Board Unveils Soy-Based Wood Adhesive" Adhesives Age, pp. 48, October 1998.   |                |
|                        |                          | "Soybean Based Adhesives Developed for Wood Applications" Adhesives Age, pp. 40, April 1994.  |                |
|                        |                          | LORENZ, et al., "The Effect of Soy Protein Additions on the Reactivity and Formaldehyde Emissions of Urea-Formaldehyde Adhesive Resins" Forest Products Journal, Vol. 49, No. 3, pp. 73-78, March 1999.   |                |
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Sheet 1 of 2

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| First Named Inventor   | Kelly Shoemake et al. |
| Art Unit               | TBA                   |
| Examiner Name          | TBA                   |
| Attorney Docket Number | 5242.00133            |

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| MM<br>↓            |                       | US- 4,070,314                              | 01-24-1978                     | Alexander et al.                                |   |
|                    |                       | US- 4,942,191                              | 07-17-1990                     | Rogers  |   |
|                    |                       | US-  |                                |   |   |
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| MM<br>↓            |                       | EP 1 176 174 A1   | 01-30-2002                     | EP  |   |                |
|                    |                       | WO 01/59026 A2  | 08-16-2001                     | PCT   |   |                |
|                    |                       | EP 0 013 447  | 07-23-1980                     | EP  |   |                |
|                    |                       | WO 98/34885   | 08-13-1998                     | PCT   |   |                |
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Signature

Matthew Matalah

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| Sheet | 2 | of | 2 |
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| <b>Art Unit</b>               | TBA                   |
| <b>Examiner Name</b>          | TBA                   |
| <b>Attorney Docket Number</b> | 5242.00133            |

### NON PATENT LITERATURE DOCUMENTS

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Signature**

Matthew Stata

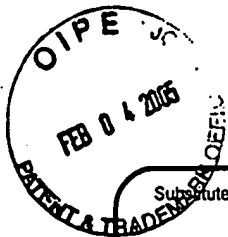
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Sheet 1 of 1

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| Application Number     | 10/671,884         |
| Filing Date            | September 24, 2003 |
| First Named Inventor   | Kelly Shoemake     |
| Art Unit               | 1771               |
| Examiner Name          | TBA                |
| Attorney Docket Number | 005242.00133       |

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|------------------------|--------------------------|--|--------------------------------|--|---|
|                        |                          | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| MM<br>✓                |                          | US- 2,872,421                              | 02/03/1959                     | Shelton et al                                      |   |
|                        |                          | US- 3,018,146                              | 01/30/1962                     | Haigh et al  |   |
|                        |                          | US-  |                                |  |   |
|                        |                          | US-  |                                |  |   |
|                        |                          | US-  |                                |  |   |
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|                        |                          | US-  |                                |  |   |
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**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials * | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited<br>Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|------------------------|--------------------------|---|--------------------------------|---|--|----------------|
|                        |                          | Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known) |                                |   |  |                |
| MM                     |                          | JP 58 210975  | 12/08/1983                     |   |  |                |
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Examiner  
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